



CONDUIT AND CABLE SCHEDULE -- STAGE II & III SWITCHGEAR CONTROL & INDICATION					
CKT. DESIG.	FROM	TO	SERVICE	CDT.	WIRE
SWITCHGEAR -- LOCAL CONTROL CABINET					
LC-1	LOCAL CONTR. CAB.	SWGR. HV-B1	CONTROL	1 1/4"	1-12/C #14
LC-2	LOCAL CONTR. CAB.	SWGR. HV-B2	CONTROL	1 1/4"	1-12/C #14
LC-3	LOCAL CONTR. CAB.	SWGR. HV-B3	CONTROL	1 1/4"	1-12/C #14
LC-4	LOCAL CONTR. CAB.	SWGR. HV-B4	CONTROL	1 1/4"	1-12/C #14
SWITCHGEAR -- INTERLOCKING BKRS. HV-B, N, & T					
I-1	SWGR. BKR. T1-3	BKR. HV-B1	240V. A.C.	1 1/2"	1-19/C #14
I-2	SWGR. BKR. T1-2	BKR. HV-B2	240V. A.C.	1 1/2"	1-19/C #14
I-3	SWGR. BKR. T3-4	BKR. HV-B3	240V. A.C.	1 1/2"	1-19/C #14
I-4	SWGR. BKR. T2-4	BKR. HV-B4	240V. A.C.	1 1/2"	1-19/C #14
I-1-2	SWGR. BKR. T1-3	BKR. T1-4	240V. A.C.	1 1/2"	1-19/C #14 & 3-1/C #14
I-3-4	SWGR. BKR. T2-4	BKR. T3-4	240V. A.C.	1 1/2"	1-19/C #14 & 3-1/C #14
REMOTE INDICATION					
T1-I	TRANS'F. TR-1	BKR. N-1	DIP N-1	3/4"	8 #14
T2-I	TRANS'F. TR-2	BKR. N-2	DIP N-2	3/4"	8 #14
T3-I	TRANS'F. TR-3	BKR. N-3	DIP N-3	3/4"	8 #14
T4-I	TRANS'F. TR-4	BKR. N-4	DIP N-4	3/4"	8 #14
UPS-I	U.P.S.	CB-R1	DIP R-1	3/4"	4 #14
LC-I	LOCAL CONTROL CAB.	CB-L3	DIP L-3	3/4"	2 #14
DIGITAL INSTRUMENT PACKAGE (DIP)					
S-1	NOTE: FOR CONNECTION SEE DWG. E-103, SCADA COMMUNICATION WIRING DIAGRAM			3/4"	1-2pr TW SH
S-2				3/4"	2-2pr TW SH
AUTOMATIC TRANSFER SW. CONTROL CDT.					
C-C	EXIST. TERM. CAB. IN ELEC. CL. "C"	TERM. CAB. #ATS-75N	120V	1"	18 #12
C-N	TERM. CAB. #ATS-75A	TERM. CAB. #ATS-75N	120V	1 1/4"	22 #12
C-12	TERM. CAB. #ATS-75N	ATS-75NR	120V	1"	16 #12
C-14	TERM. CAB. #ATS-75N	ATS-75NL	120V	1"	16 #12
C-IN	TERM. CAB. #ATS-75N	EXIST. J.B.	120V	3/4"	5 #12
C-SE	TERM. CAB. #ATS-75A	EXIST. JB SHUTTLE ELEV. MACH. RM.	120V	3/4"	7 #12
C-BE	TERM. CAB. #ATS-75A	EXIST. JB BANK ELEV. MACH. RM.	120V	3/4"	7 #12
C-R1	TERM. CAB. #ATS-75N	CB-R1	120V	3/4"	8 #12

SEE DWG. E-101, PANEL SCHEDULE

PANEL CP-75-N CONDUIT AND CABLE SCHEDULE					
CDT. DESIGNATION	CKT. No.	No. & SIZE	WIRE TYPE	CONDUIT SIZE	
CP-75N-1	1	2 #12	XHHW-2 GND.	3/4" C.	
CP-75N-2	2	2 #12	XHHW-2 GND.	3/4" C.	
CP-75N-7	7	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-8	8	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-9	9	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-10	10	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-11	11	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-12	12	2 #12	XHHW-2 GND.	3/4" C.	
CP-75N-13	13	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-14	14	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-15	15	2 #10	XHHW-2 GND.	3/4" C.	
CP-75N-16	16	2 #10	XHHW-2 GND.	3/4" C.	

SEE DWG. E-98, CONNECTION DIAGRAM

WIRING FOR SUB. #SS-75N & S

TEMPORARY CONDUIT

WIRING FOR SUB. #SS-75N & S SEE PLAN DWG. E-45

WIRING FOR SUB. #SS-75N & S SEE PLAN DWG. E-45 & E-59

DIP INPUT

NOTE:

- THIS DRAWING SHOWS BOTH STAGE II AND III WORK COMBINED. FOR SEPARATION OF WORK SEE NOTE #3 DWG. E-39.
- FOR WORK IN ELECTRIC CLOSET "C" SEE DRAWING E-40, ONE LINE DIAGRAM
- FOR LOCAL CONTROL CABINET DETAILS SEE DRAWING E-107.

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 Sullivan A. Aslan

DATE 8/15/95 Peter K. Sweeney

ENGINEER OF DESIGN

Sheet 129 of 224

THE PORT AUTHORITY
OF NY & NJ

Peter K. Sweeney
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER
CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Division

The World Trade
Center
Electrical/HVAC
Upgrade Program

Title
TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION

ELECTRICAL

SUBSTATION SS-75N
STAGE II AND III
75th FLOOR PLAN
CONTROL CDT. LAYOUT

No. Date Revision Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

LEAHY/
FISCHER LEAHY A.S.
Designed by Drawn by Checked by

Date 5-1-95 Scale AS NOTED

Contract Number Drawing Number

WTC 802.071 E-43